



3SF/F CiTiceL

With H₂S/HCl filter

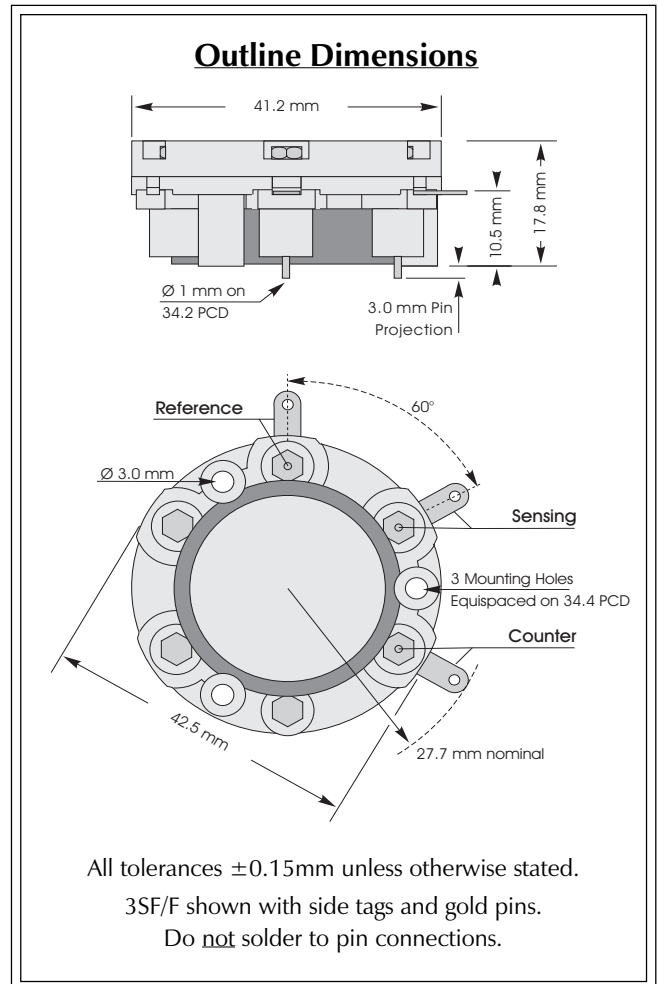
Performance Characteristics

Nominal Range	0-2000ppm
Maximum Overload	5000ppm
Expected Operating Life	Two years in air
Output Signal	0.10 ± 0.02µA/ppm
Resolution	1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	0.004 % signal/mBar
T₉₀ Response Time	<35 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 ± 2ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	5ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10 Ω
Bias Voltage	Not required
Repeatability	1% of signal
Output Linearity	Linear

N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

Physical Characteristics

Weight	22g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch



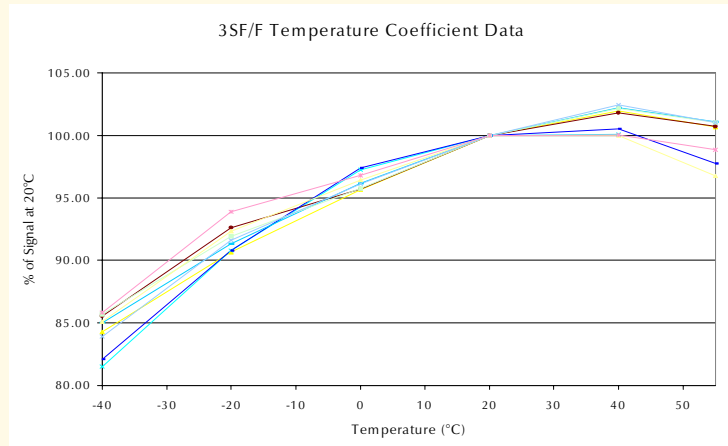


Temperature Dependence

The output from a CiTiceL will vary only slightly with temperature.

The graph here shows the variation in output with temperature for 3SF/F CiTiceLs based on a sample of sensors.

The results are shown in the graph expressed as a percentage of the signal at 20°C.



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. The table below shows the typical response of 3SF/F sensors to a number of common cross-interfering gases. The figures are expressed as a percentage of the primary sensitivity (i.e. sulphur dioxide = 100%).

Gas	Response	Gas	Response
Carbon monoxide:	<3.5	Hydrogen:	<3
Hydrogen Sulphide:	0	Hydrogen Chloride:	0
Nitric oxide:	0	Ethylene:	<50
Nitrogen dioxide:	≈125	** For details of other possible cross-interfering gases contact City Technology. **	

Ordering Information

The 3SF/F Sulphur Dioxide CiTiceL is available with both PCB pins and side tags only.

Type 3SF/F:- With side tag and PCB pin connections - **3SF/F**

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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.